

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 10-084500

(43)Date of publication of application : 31.03.1998

(51)Int.Cl.

H04N 5/21

H04B 1/26

(21)Application number : 09-206544

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(22)Date of filing : 31.07.1997

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(30)Priority

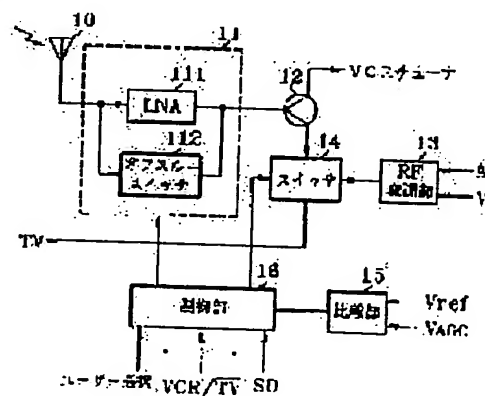
Priority number : 96 9632504 Priority date : 03.08.1996 Priority country : KR

## (54) BROADCAST RECEIVER FOR IMPROVING SENSITIVITY OF ADAPTIVE RECEPTION

(57)Abstract:

PROBLEM TO BE SOLVED: To improve the reception sensitivity of a reception signal by operating a low-noise amplifier(LNA) provided at a front end of a VCR tuner under various conditions.

SOLUTION: A control section 16 controls the operation of a LNA 111 of an amplifier section 11 according to various factors, such as a comparison result signal from a comparator section 15 and a VCR setting mode VCR/TV signal to discriminate an electric field strength of a received channel. Then an RF-AGC voltage VAGC becomes lower, when a signal from an antenna 10 indicates a high electric field strength, and the RF-AGC voltage VAGC becomes higher when a signal from the antenna 10 indicates a low electric field strength. The comparator section 15 compares the RF-AGC voltage VAGC with a reference voltage Vref, and if the RF-AGC voltage VAGC is lower than the reference voltage Vref, the processing section 15 provides an output of a low-level comparison result signal, while recognizing a broadcast signal with a high electric field strength. When the RF-AGC voltage VAGC is higher than the reference voltage Vref, the processing section 15 provides an output of a high-level comparison result signal, while recognizing a broadcast signal with a low-electric field strength. Furthermore, a control section 16 activates/deactivates the low-noise amplification operation of the LNA 111, depending on the VCR setting mode VCR/TV signal and the comparison result signal from the comparator section 15.



## LEGAL STATUS

[Date of request for examination]

01.07.1997

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the  
examiner's decision of rejection or application  
converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of  
rejection]

[Date of requesting appeal against examiner's  
decision of rejection]

[Date of extinction of right]

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